**AMIA 2024 Artificial Intelligence Evaluation Showcase: Stage I Preliminary Abstract Template**

**Stage I - Technical Performance Studies**

Stage I of the AMIA AI Evaluation Showcase calls for the submission of a **uniform preliminary abstract for all submission types**.

Upon submission, authors will select their submission type (poster: poster; oral: podium abstract or paper). Submissions accepted for *oral presentation* will be invited to submit a podium abstract or paper, author’s choice. *Only papers will be indexed in Medline.* No further action will be required for the poster submission type.

A structured template for the preliminary abstract can be found on the next page. Submission to have a system description, results from a study of AI/ML model performance, and an outline of the methods of the comprehensive evaluation plan (for Stages II and III). For the evaluation of model performance, teams are encouraged to report on the evaluation metrics that would be useful to assess not only the model’s discrimination ability but also its reliability in different settings. We strongly encourage teams to report on their bias detection and mitigation strategy.

AMIA also strongly recommends adherence to published reporting guidelines, including the [Transparent Reporting of a multivariable prediction model for Individual Prognosis or Diagnosis (TRIPOD) Checklist](https://www.tripod-statement.org/wp-content/uploads/2020/01/Tripod-Checlist-Prediction-Model-Development.pdf). The TRIPOD Checklist is a 22-item checklist that aims to improve the transparency and reporting of a prediction model, whether for diagnostic or prognostic purposes. Below are recommendations to help satisfy adherence to Statistical Analysis Methods (10d) within the TRIPOD Checklist.

* Specify all measures used to assess model prediction performance and, if relevant, to compare multiple models.
  + Area under the Receiver Operating Characteristic curve (AUROC)
  + Area under the Precision-Recall Curve (AUPRC)
  + Sensitivity, specificity, and positive predictive value (PPV)
* Specify measures for model calibration, if available
  + Hosmer-Lemeshow (HL) goodness-of-fit test
  + Brier Skill Score (BSS)
* Specify measures for model fairness (bias), if available
  + AUROC, AUPRC, sensitivity, specificity, and PPV for each demographic subgroup, e.g., race subgroups

Collins GS, Reitsma JB, Altman DG, Moons KG. Transparent Reporting of a multivariable prediction model for Individual Prognosis or Diagnosis (TRIPOD): the TRIPOD statement. Ann Intern Med. 2015 Jan 6;162(1):55-63. doi: 10.7326/M14-0697. Erratum in: Ann Intern Med. 2015 Apr 21;162(8):600. PMID: 25560714.

Post acceptance, *oral* presentation candidates will be invited to submit a podium abstract or paper. \*Only papers will be indexed (Medline). No further action will be required for those invited to present a poster. Submission details for papers and posters can be found in the table below. All accepted submissions will be presented live at the AMIA Informatics Summit.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Presentation Candidates** | **Submission Type** | **Abstract Length** | **Page Length Maximum– *If your submission is longer than what is specified below, it may be rejected without review*** | |
| All | Preliminary Abstract for AI Evaluation Showcase Stage I Submission | 50-75 words | One | |
| **Post Acceptance** | | | | |
| Oral | Paper\* | 125-150 words | Ten | |
| Podium Abstract | 50-75 worlds | Two | |
| Poster | Poster | 50-75 words | | One |

***Note: All uploaded submissions must be in PDF format. Please open the PDF file before uploading it to make sure that the conversion was successful. Failure to adhere to the format requirements may result in the rejection of your submission without review***

**Title of Your Submission**

**Firstname A. Lastname, Degrees1, Firstname B. Lastname, Degrees2**

**1Institution, City, State, Country (if applicable); 2Institution, City, State, Country (if applicable)**

**Abstract**

*Abstract text goes here, justified and in italics. The abstract would normally be one paragraph long. See Table 1. for appropriate abstract length by submission type. See “Call for Participation” to determine if Abstract must be included in the PDF file or not.*

**Introduction**

This template should be used as a starting point for AMIA submissions.

It is important to review the AMIA Call for Participation (CFP) where types of submissions considered and general requirements for each submission type are listed. All submissions must conform to the format and presentation requirements described in the CFP and at the submission site.

**Methods**

This sentence has two reference citations1, 2.

More text of an additional paragraph, with a figure reference (Figure 1) and a figure inside a Word text box below. Figures need to be placed as close to the corresponding text as possible and not extend beyond one page.

**Figure 1.** Total allergy alerts, overridden alerts, or drug orders canceled.

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**Results**

This paragraph contains a reference to a table just below (Table 1). All tables need to be placed as close to the corresponding text as possible, But each individual table should be on one page and not extend to multiple pages unless labeled as “Continued”.

**Table 1.** Submission type, abstract length, and page length maximum for AMIA submissions.

|  |  |  |
| --- | --- | --- |
| **Submission Type** | **Abstract Section Length** | **Expected Length 1-2 pages – *If your submission is longer than what is specified below, it may be rejected without review*** |
| Preliminary Abstract for AI Evaluation Showcase Stage I Submission | 50-75 words\* | One |

**\*** All submissions must have a brief (50-75 words) abstract. The abstract does NOT have to be part of the document but must be entered on the submission website in the Abstract box in the submission portal.

This is another paragraph.

**Discussion and Conclusions**

Your conclusion goes at the end, followed by References, which must follow the Vancouver Style (see: www.icmje.org/index.html). References begin below with a header that is centered. Only the first word of an article title is capitalized in the References.

**References**

1. Pryor TA, Gardner RM, Clayton RD, Warner HR. The HELP system. J Med Sys. 1983;7:87-101.

2. Gardner RM, Golubjatnikov OK, Laub RM, Jacobson JT, Evans RS. Computer-critiqued blood ordering using the HELP system. Comput Biomed Res 1990;23:514-28.